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ASSEMBLY OF MARK 3 DELAY

- 1. Remove primer holder from end of unit.
- 2. Insert spring and striker body into large chamber.
- 3. Compress spring so that the small end of the striker body protrudes through hole between chambers in the body of the unit.
- 4. Insert striker screw into screw disc and screw handtight into end of striker body.
- 5. Screw retainer into small end of the unit body and tighten with a small screw driver.
- 6. Place retaining disc into the large end of the body. It will seat on the small shoulder of the relief for the 11 mm threads.
- 7. Place into primer holder and screw primer holder back into body. In actual use the primer will be potted using NRC lacquer into the holder, and the open end of the primer will be protected by a piece of aluminum foil potted into primer holder.
- 8. The chosen capsule can be screwed into the 9 mm threads in the body loosely until ready for activation. Activation is achieved by simply screwing the capsule into the unit finger tight.
- 9. After the unit has fired, the retainer should be screwed out and the body thoroughly cleaned with acetone. For experimental purposes it can then be reused.
- 10. Average firing times are as follows: (minutes)

	Upright Position				Inverted Position		
	104°F	7 7° F	41°F	10	40 F	77°F	41°F
Red Capsule	123.6	199.3	336	133	.9	198.1	312
Yellow Capsule	325.1	606.7	1246	378	.7	697.5	1679

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RED CAPSULE

Upright Position

mencalar

104° F 108 min. 110 " 118 " 120 " 126 " 127 " 130 " 137 " 140 " 123.6 min. 123.0 " 10.5 "	77°F 180 min. 180 " 186 " 188 " 197 " 205 " 208 " 215 " 216 " 218 " 199.3 min. 201.0 "	41°F 295 min. 305 " 310 " 385 " 385 "
8.5%	7 • 5%	

Inverted Position

Mean Median	104°F 129 min. 140 " 141 " 142 " 145 " 147 " 162 " 173 " 190 " 155.9 min. 146.0 "	77°F 179 min. 184" 188 " 196 " 200 " 202 " 203 " 205 " 209 " 215 " 198.1 min. 201.0 "	41°F 305 min. 305 " 310 " 315 " 325 "
Stnd. Deviation Coefficient of	21.7 *	11.3 *	
Variation	13.3%	5.7 \$	

Mean Median

Stnd. Deviation Coefficient of

Variation

YELLOW CAPSULE

Upright Position

Mean Median Stnd. Deviation	104°F 260 min. 275 " 295 " 300 " 320 " 329 " 340 " 370 " 377 " 385 " 325.1 min. 224.5 " 44.6 "	77°F 515 min. 540 " 545 " 554 " 603 " 615 " 630 " 670 " 690 " 705 " 606.7 min. 611.0 " 67.2 "	41°F 1185 min. 1235 " 1245 " 1282 " 1283 "
Coefficient of Variation	13.7%	11.1%	

Inverted Position

	104°F 315 min. 335 " 335 " 350 " 380 " 380 " 395 " 420 "	77°F 565 min. 605 " 620 " 635 " 645 " 660 " 730 " 825 " 830 "	41°F 1585 min. 1655 " 1670 " 1730 " 1755 "
Mean Median Stnd. Deviation Coefficient of	378.7 min. 380.0 " 41.5 "	860 " 697.5 min. 652.5 " 106 "	1679 min.
Variation	11.0%	15.2%	

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SUPPLEMENTAL REPORT NO. 1

ON

TESTING PROGRAM

R. O. 10

29 OCTOBER 1957

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Upon termination of the testing program, ten tests were still in progress. These tests were of the capsules using a mixture of 99% dimethyl phthalate and 1% n-butyl lactate at 41° F.

Five tests were with the Mark II delay prototypes in the upright position and five were in the inverted position. To date, the following results have been obtained:

Upright Position	533 560 869	days *
Inverted Position		days
•	660	W
	868	W
	934	#

The remaining tests will be reported when complete.

No additional costs were incurred during these tests.